

# **Vidifox<sup>®</sup> Document Camera**

## **PV 360**

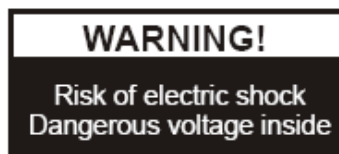
# **USER MANUAL**



Please read this User Manual thoroughly before you use the document camera. Keep the CD-ROM in a convenient place so you can use it quickly if you need to.

Please visit us at <http://www.waninusa.com> where you can get product support, the latest driver updates, and answers to frequently asked questions (FAQs) and technical questions.

## PRECAUTIONS



### NOTICES: PLEASE READ CAREFULLY BEFORE USE

- ◆ Use the document camera under the rated electric conditions.
- ◆ Do not place the document camera on any unstable surface. It may fall and cause injuries or damages.
- ◆ Do not place this device directly under sunlight or near heaters.
- ◆ Do not place this device near water.
- ◆ Keep the camera away from acid or alkali gas.
- ◆ Do not place this document camera in humid, dusty, windy or vibrant locations.
- ◆ The recommended operating environment is:
  - Temperature: 0°C--45°C (32°F-113°F)
  - Humidity: less than 75%
- ◆ Always unplug BEFORE cleaning the device. Use a damp soft-cloth for cleaning. Do not use volatile solvent.
- ◆ When this equipment functions abnormally, such as smoke, smell, noise, immediately unplug and call for professional assistance.
- ◆ Unplug the document camera or shut off the power when not in use.

## Legal Notice

### *FCC Part 15*

This device complies with Part 15 of the FCC Rules. Operation of this product is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## Compilation and Publication Notice

This manual has been compiled and published to cover the latest product's descriptions and specifications. The contents of this manual and the specifications of this product are subject to change without notice.

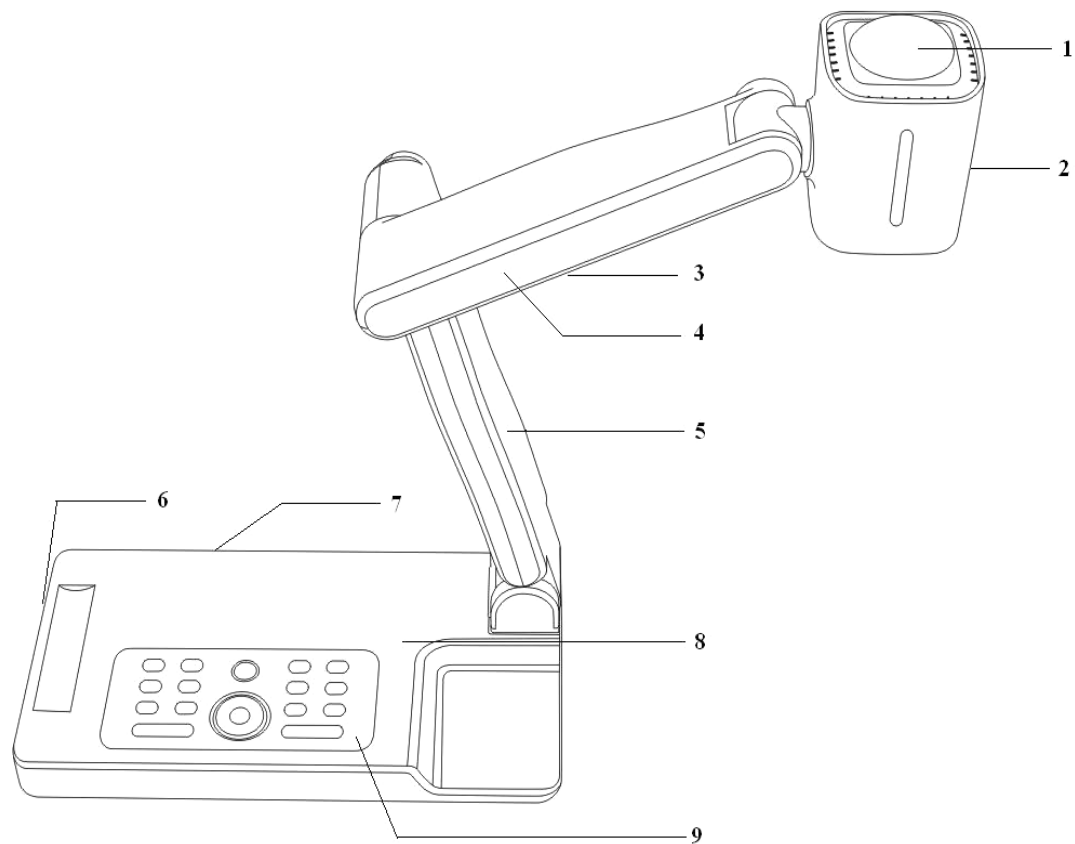
Wanin USA reserves the right to make changes without notice in the specifications and materials contained herein and shall not be responsible for any damages (including consequential) caused by reliance on the materials presented, including but not limited to typographical and other errors relating to the publication.

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## TABLE OF CONTENTS

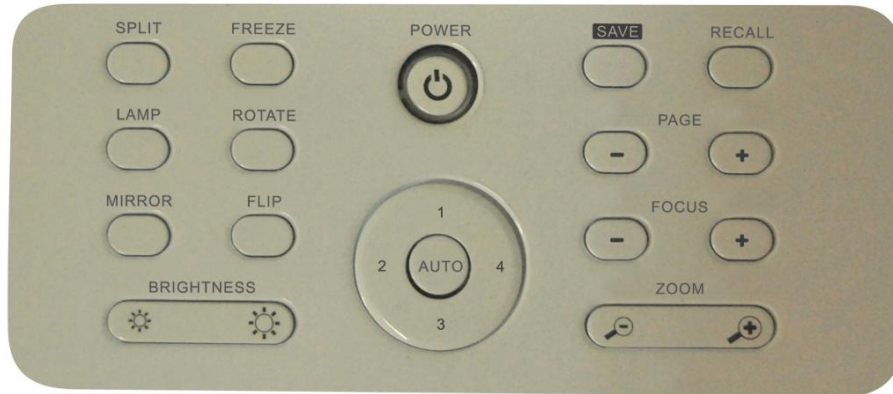
<b>1. PARTS IDENTIFICATION.....</b>	<b>4</b>
<b>2. CONTROL PANEL .....</b>	<b>5</b>
<b>3. INPUTS AND OUTPUTS .....</b>	<b>6</b>
<b>4. REMOTE CONTROL .....</b>	<b>7</b>
<b>5. CONNECTIONS.....</b>	<b>8</b>
5.1. USB CONNECTION .....	8
5.2. VGA OUTPUT CONNECTION.....	9
<b>6. USB CAMERA .....</b>	<b>10</b>
<b>7. FEATURES .....</b>	<b>23</b>
LIGHT.....	23
ZOOM IN AND ZOOM OUT .....	23
FOCUS ADJUSTMENT.....	23
BRIGHTNESS ADJUSTMENT .....	23
WHITE BALANCE ADJUSTMENT .....	23
IMAGE FREEZE.....	23
IMAGE ROTATE.....	24
SPLIT SCREEN.....	24
IMAGE SAVE.....	24
IMAGE RECALL .....	24
USB IMAGE CAPTURE AND VIDEO RECORDING.....	24
<b>8. SPECIFICATION .....</b>	<b>25</b>
<b>9. TROUBLE-SHOOTING: .....</b>	<b>26</b>
<b>10. PACKING LIST.....</b>	<b>26</b>
<b>11. TECHNICAL SUPPORT .....</b>	<b>27</b>
By Phone.....	27
Online.....	27

# 1. PARTS IDENTIFICATION



1. **Remote control IR receiver**
2. **Camera**
3. **LED light box**
4. **Upper mechanical arm**
5. **Main mechanical arm**
6. **Side panel**
7. **Back panel**
8. **Base unit**
9. **Control panel**

## 2. CONTROL PANEL

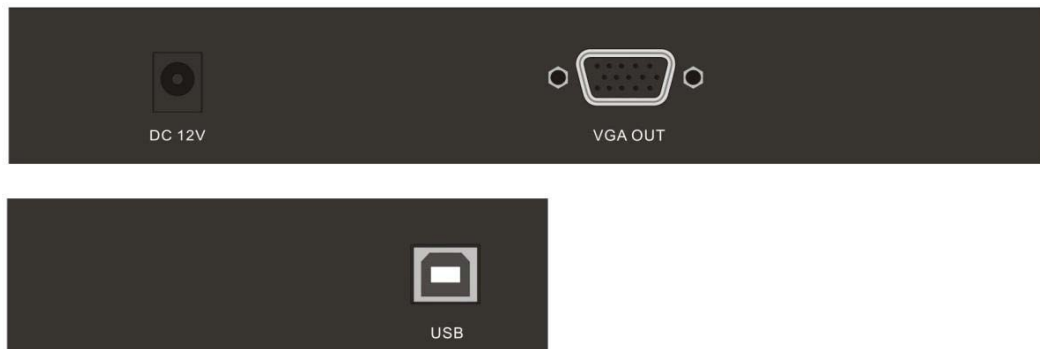


1. **POWER**: Turn on/off the power.
2. **AUTO**: Carry out auto focus, color adjustment and white balance.
3. **SPLIT**: Split screen, enable the comparison between the frozen image and live image.
4. **FREEZE**: Freeze/unfreeze the image.
5. **LAMP**: Switch the input source.
6. **ROTATE**: Rotate the image by 180°.
7. **MIRROR**: Output right-and-left mirror image.
8. **FLIP**: Output up-and-down mirror image.
9. **BRIGHT+/-**: Image brightness control.
10. **SAVE**: Capture and save the current image.
11. **RECALL**: Image Recall mode enabled, display the saved images.  
Back to an upper level of the menu in Image Recall mode.
12. **PAGE +/-**: Page up and page down in Image Recall mode.
13. **FOCUS+/-**: Adjust focus manually, focus far and focus near.
14. **ZOOM+/-**: Image zoom in and zoom out control.

In Image Recall mode:

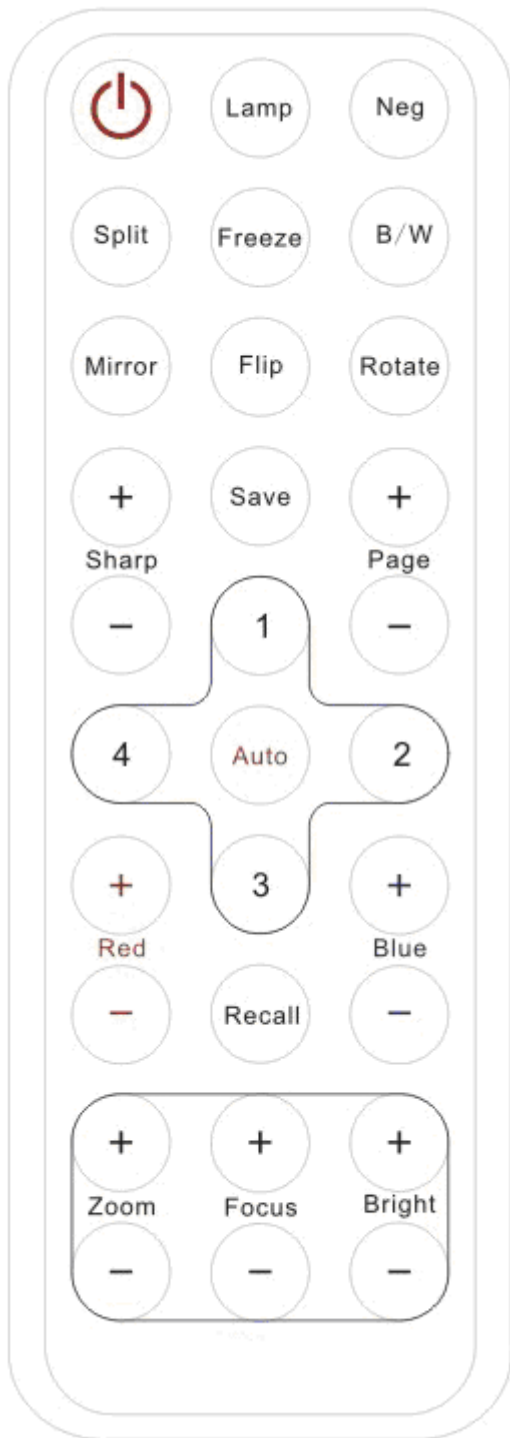
- 1: Display the first image.
- 2: Display the second image.
- 3: Display the third image.
- 4: Display the fourth image.

### 3. INPUTS AND OUTPUTS



1. **DC 12V:** Power input.
2. **VGA OUT:** VGA (RGB) signal output (15 pin D-SUB).
3. **USB:** Capture image into a connected computer via the software provided.

## 4. REMOTE CONTROL



1. **Lamp:** Turn on/off the LED light.
2. **Neg:** Switch the image mode between positive and negative.
3. **Split:** Split screen, enable the comparison between the frozen image and live image.
4. **Freeze:** Freeze/unfreeze the image.

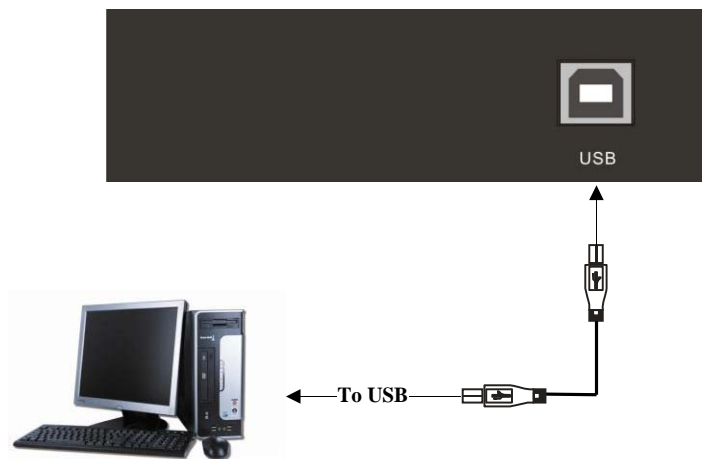
5. **B/W**: Switch the output image between color and monochrome.
6. **Mirror**: Output right-and-left mirror image.
7. **FLIP**: Output up-and-down mirror image.
8. **ROTATE**: Rotate the image by 180°.
9. **Sharp+/-**: Image sharpness control.
10. **Page +/-**: Page up and page down in image recall mode.
11. **Save**: Capture the image in display.
12. **Auto**: Carry out auto focus, color adjustment and white balance.
13. **Red+/-**: Image color adjustment (red).
14. **Blue+/-**: Image color adjustment (blue).
15. **Recall**: Image Recall mode enabled, display the saved images.
17. **Zoom+/-**: Image zoom in and zoom out control.
18. **Focus+/-**: Adjust focus manually, focus far and focus near.
19. **Bright+/-**: Image brightness control.

In Image Recall mode:

- 1: Display the first image.
- 2: Display the second image.
- 3: Display the third image.
- 4: Display the fourth image.

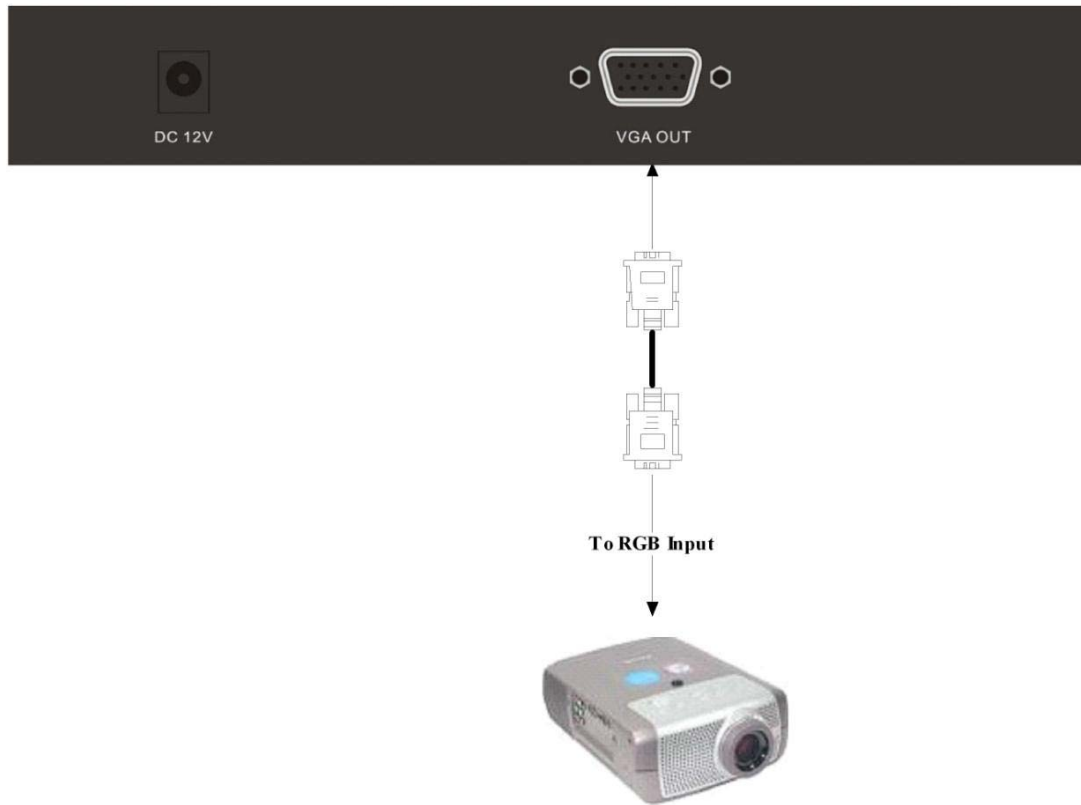
## 5. CONNECTIONS

### 5.1. USB CONNECTION





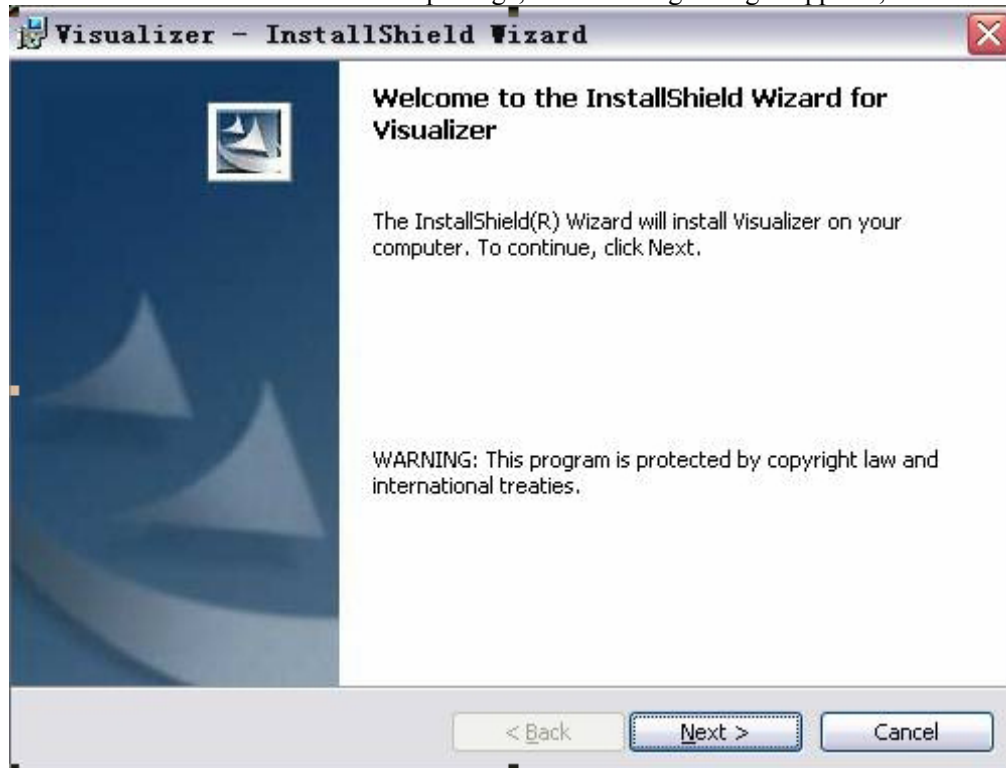
## 5.2. VGA OUTPUT CONNECTION



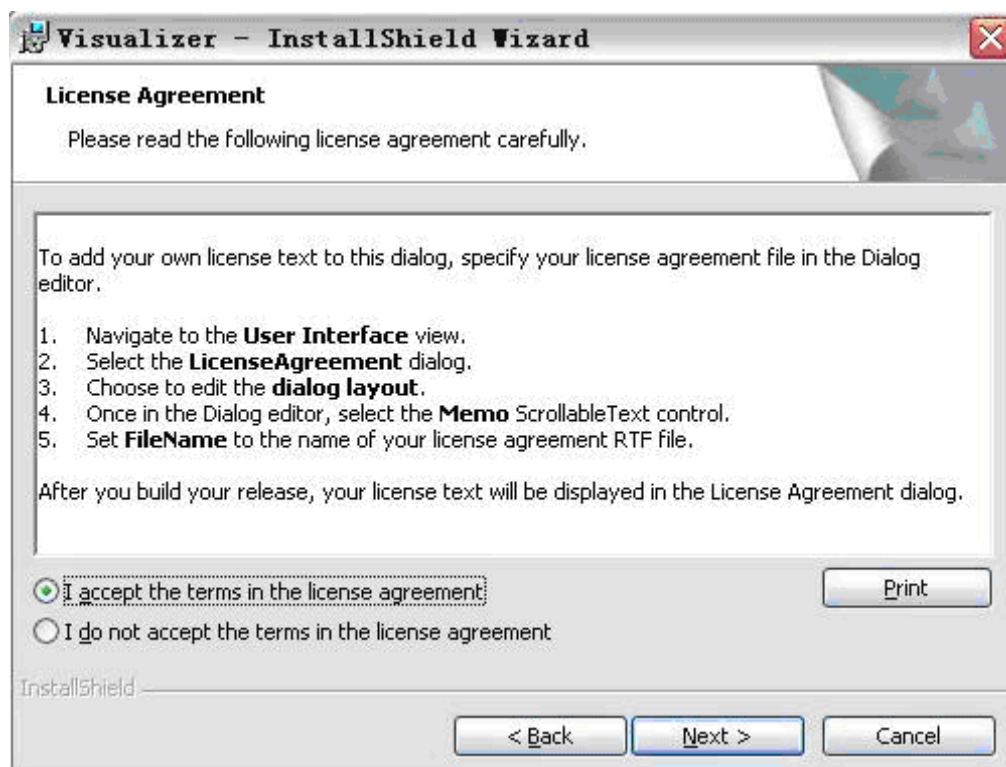
## 6. USB CAMERA

### 1、SOFTWARE INSTALLATION

Click to run the software installation package, the following dialogue appears, click "Next":



Read the terms, Select "I accept the terms in the license agreement." Click "Next", as the following figure.



The following dialogue box appears, click "Next":



**Visualizer - InstallShield Wizard**

**Customer Information**

Please enter your information.

User Name:

Organization:

Install this application for:

☒ Anyone who uses this computer (all users)

☐ Only for me (lenovo)

InstallShield

< Back   Next >   Cancel

The default installation directory is Program Files, C: \ Program Files \, you can select a different installation directory, as shown:



**Visualizer - InstallShield Wizard**

**Destination Folder**

Click Next to install to this folder, or click Change to install to a different folder.

 Install Visualizer to:  
C:\Program Files\

Change...

InstallShield

< Back   Next >   Cancel

Click "Change" to change the directory, as shown:



Click "OK", the following figure appears. Click "Next".



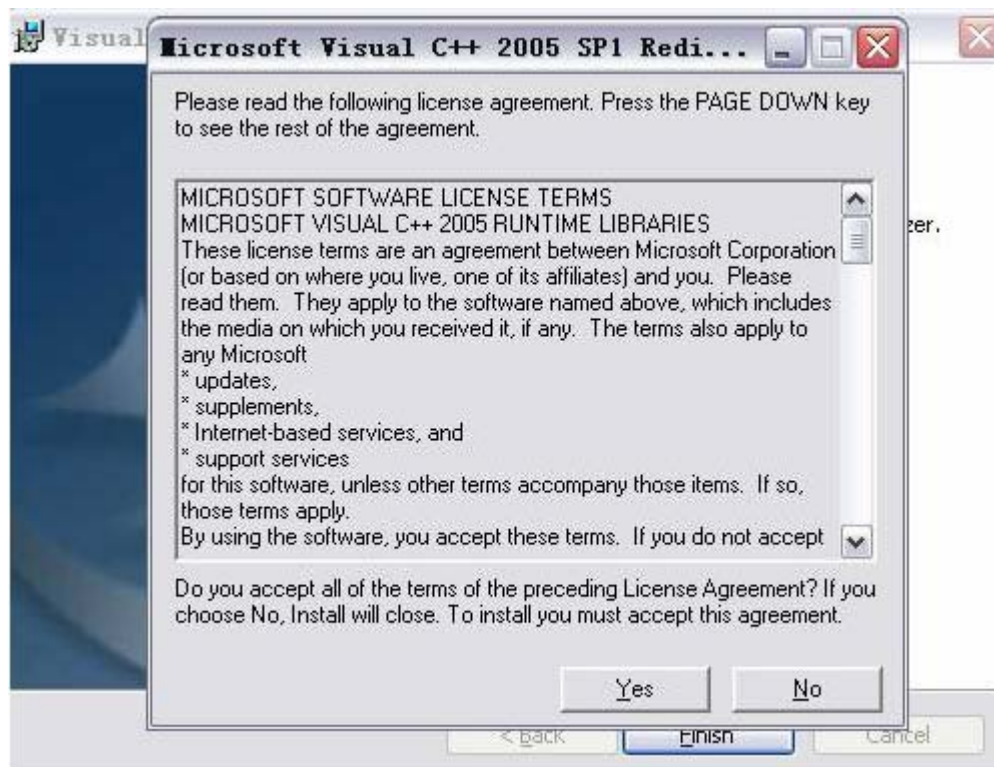
Click "Install" to complete installation, as shown:



Click "Finish" to complete the installation, as shown:



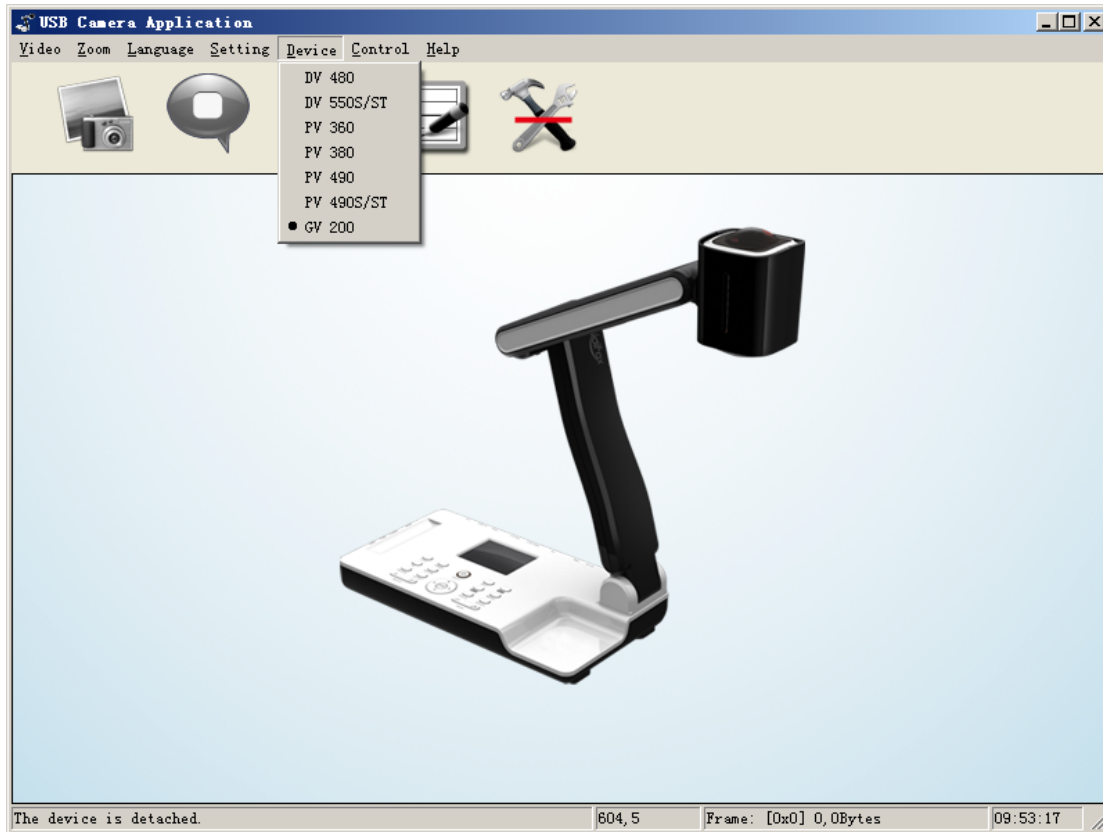
Then you will see the following interface, which is an installation package for 2005 environment. If your PC already has this installed, click "No" to exit, otherwise, click "Yes" to install it.



## 2、SOFTWARE START



Double click the short cut on the desktop, then click Device, select the right model number, see below:

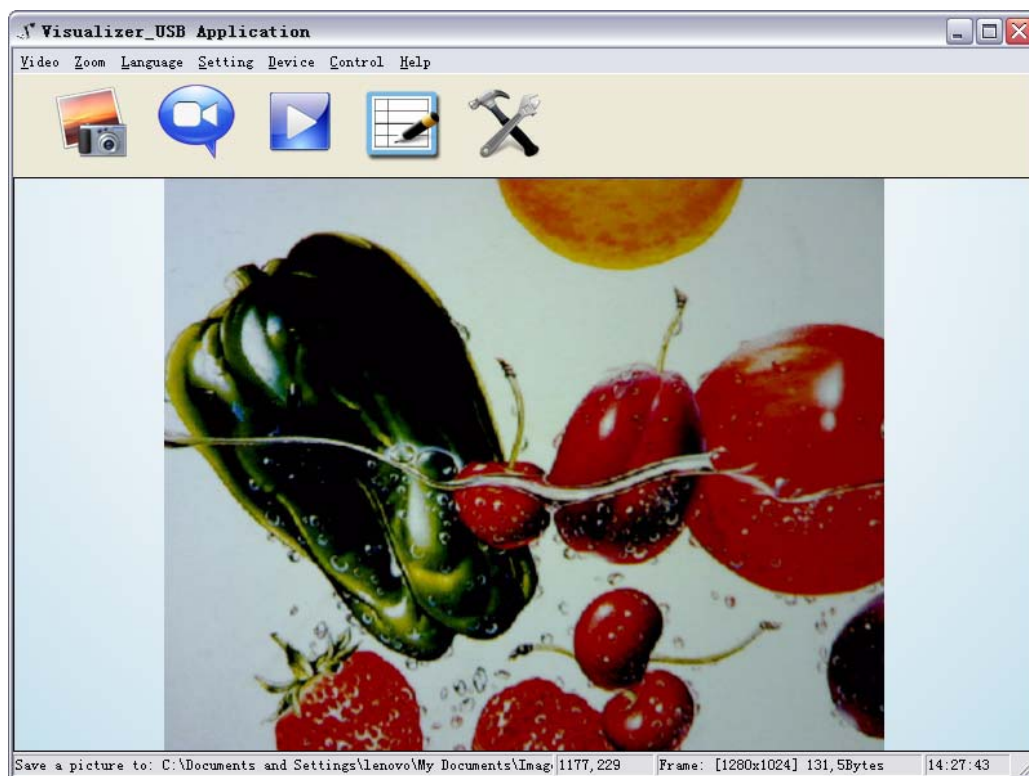


### IMAGE CAPTURE AND VIDEO RECORDING:



Left click to capture images. The captured images will be automatically saved into the default destination folder. The path and file name are displayed in software status bar on the bottom of the window. Shown below:





Left click to start recording. The setting button will changes to and does not work. The detailed information is displayed on the software status bar in the bottom of the window. The video is automatically saved in the default folder or pre-set folder.

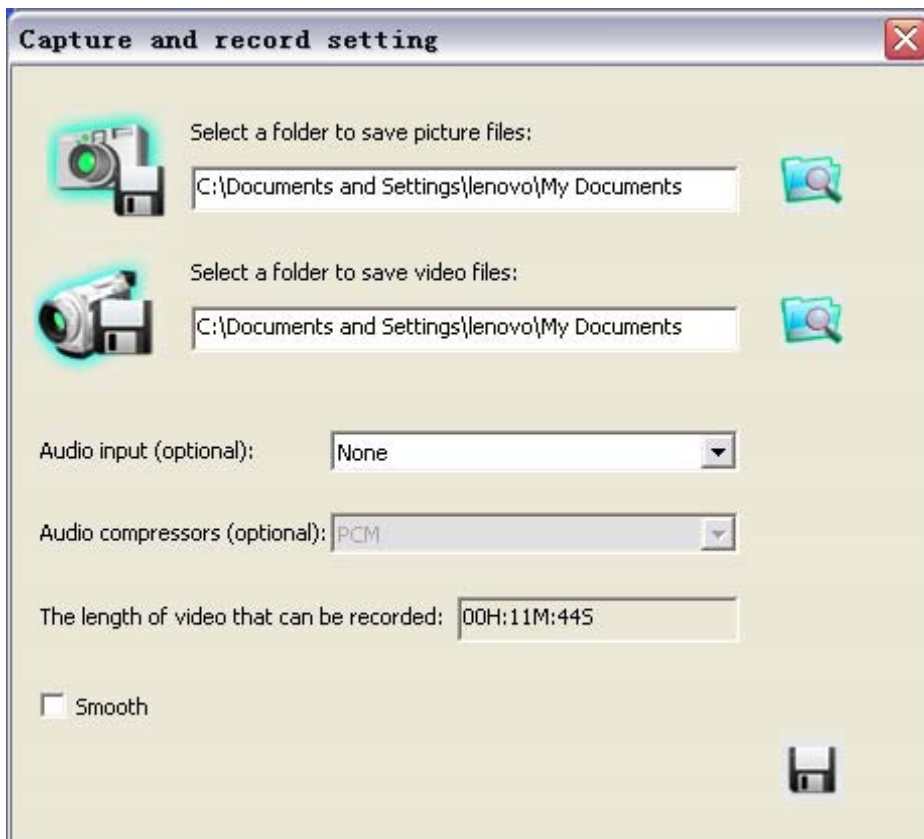
#### SETTING:

The captured images and recorded videos will be saved into the folders of Images and Videos respectively, which are created by the system automatically. To set a different path to which the image/video is be to



saved, click on the left side of the window, a pop up dialog box appears below.



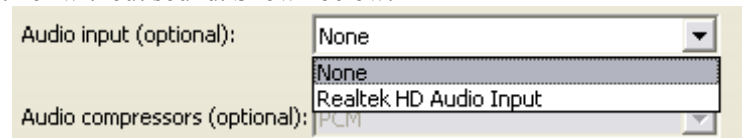


***Save the captured images into a different folder***

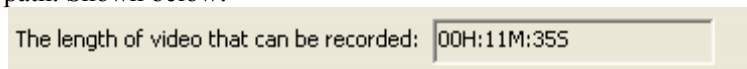
Click the button next to the "select a folder to save picture files" text box to set the path for captured images.

***Save the recorded video into a different folder and set up parameters for videos***

Click the button next to the "Select a folder to save video files:" text box to set the path for videos. You can also change the video settings. The Audio input (optional) drop down box offers the options of recording video with or without sound. Shown below:



The length of video that can be recorded box displays the longest recording time for videos to be saved in the preset path. Shown below:



Click save to complete setting.


**IMAGE MODIFY:**




Click , you will see the interface:

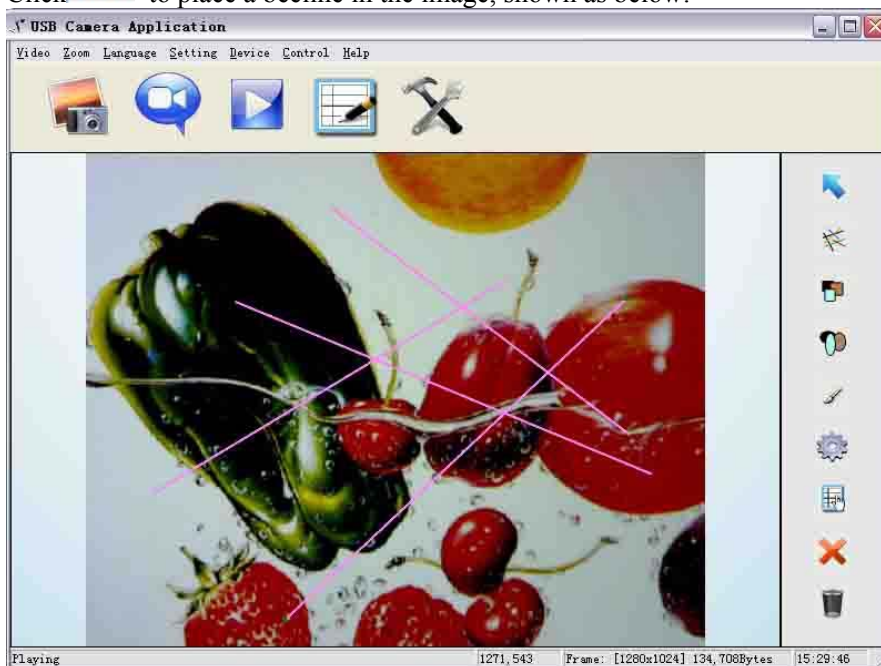



### Graphic selection and move

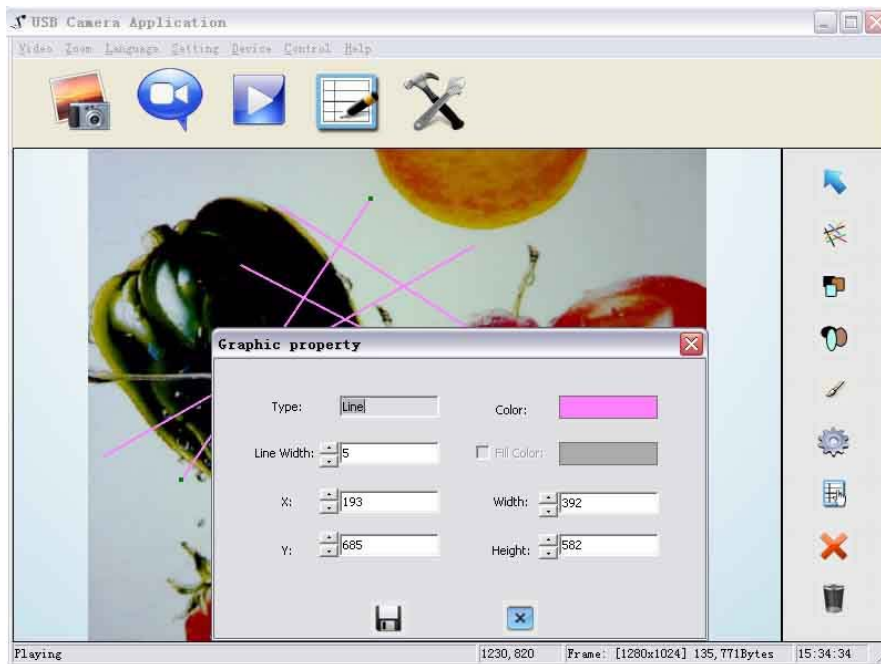
Click  to choose a line, circle, rectangle or curve that placed in the image, then move to another place.

### Line

Click  to place a beeline in the image, shown as below:



Click  to change the setting of the chosen line:

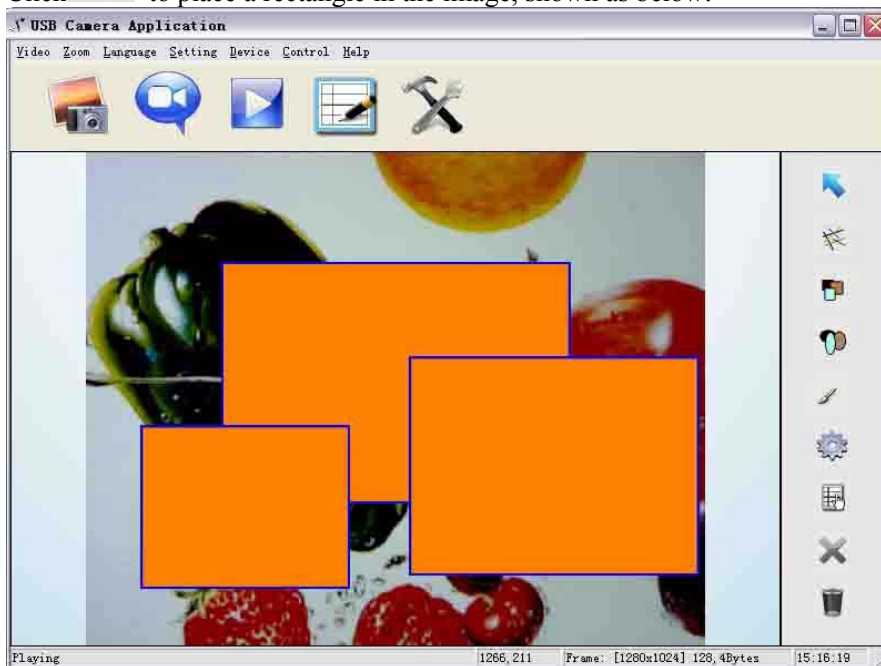


Line width: change the width of the line.  
 X, Y: change the position of the line.  
 Color: change the color of the line.  
 Width, Height: Change the angle of the line.

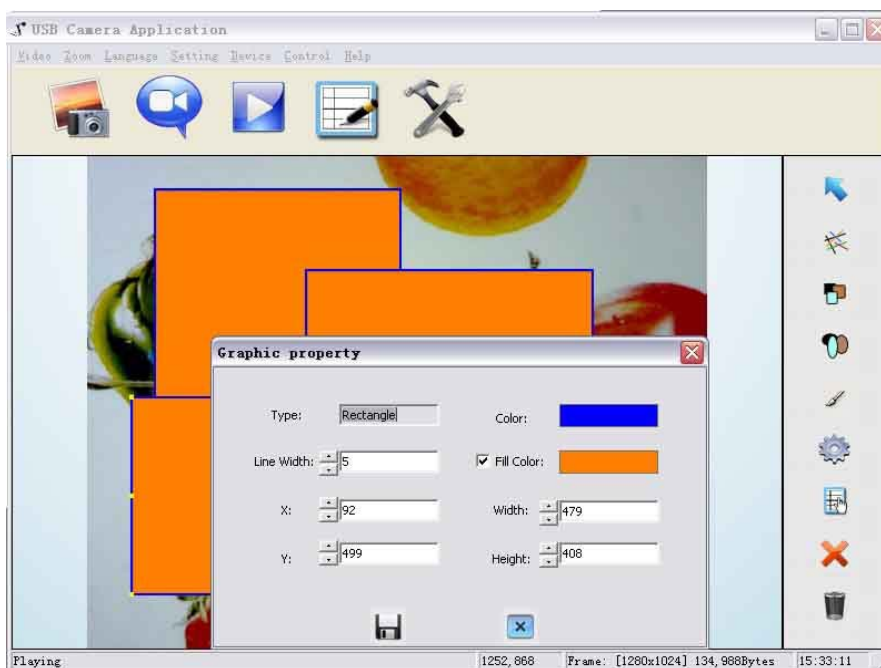
### *Rectangle*



Click to place a rectangle in the image, shown as below:



Click to change the setting of the chosen rectangle:



Line width: change the line width of the rectangle.

X, Y: change the position of the rectangle.

Color: change the line color of the rectangle.

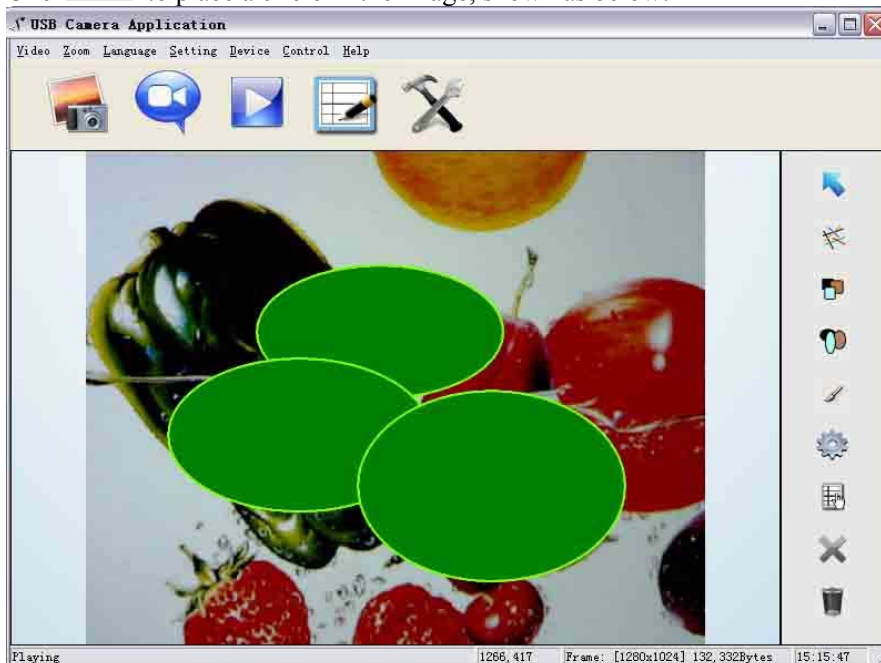
Fill Color: Tick it to fill color in the rectangle.

Width, Height: Change the shape of the rectangle by changing the angle of two adjacent lines of the rectangle.

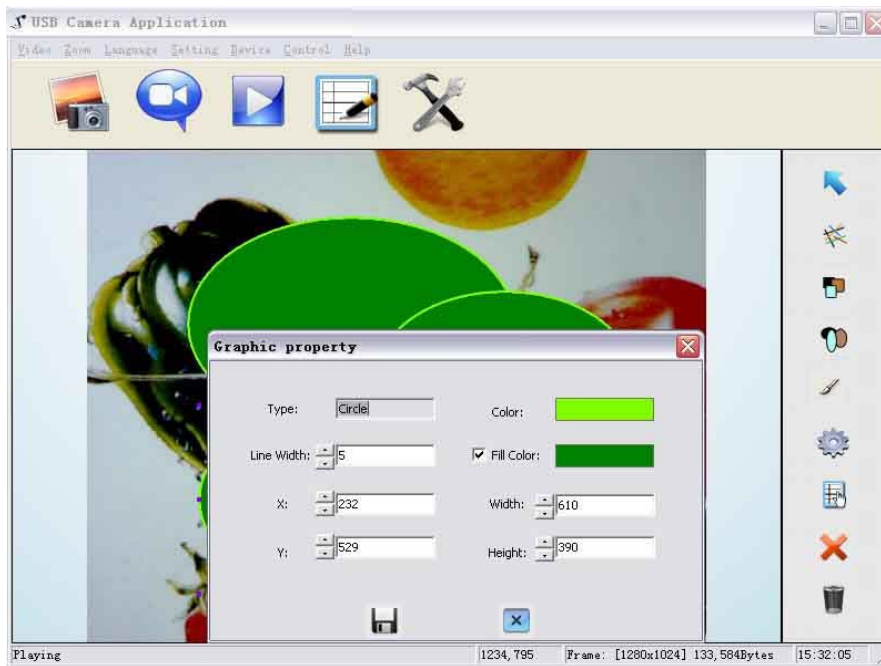
### Circle



Click to place a circle in the image, shown as below:



Click to change the setting of the chosen circle:



Line width: change the line width of the circle.

X, Y: change the position of the circle.

Color: change the line color of the circle.

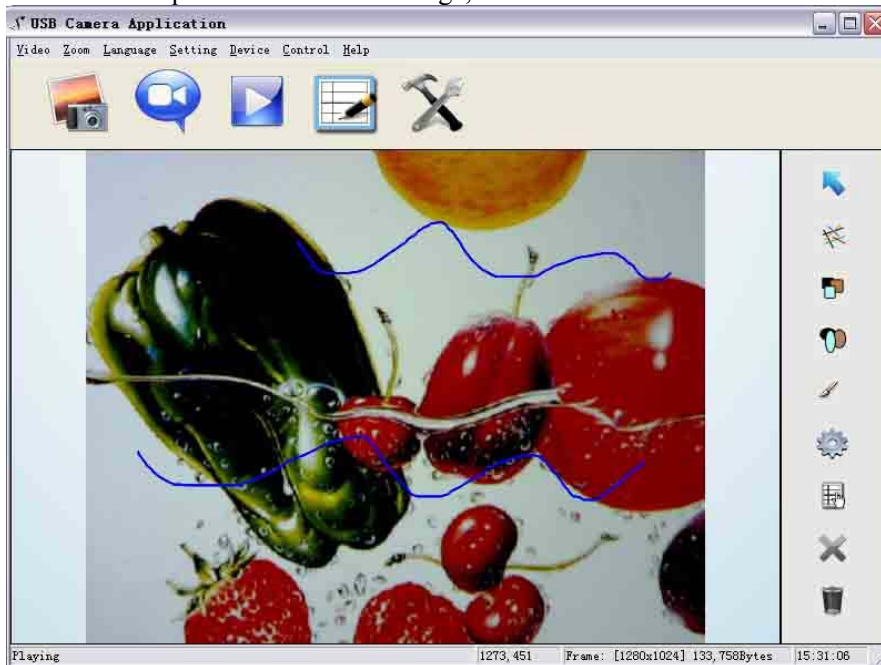
Fill Color: Tick it to fill color in the circle.

Width, Height: change the size of the circle.

*Curve*

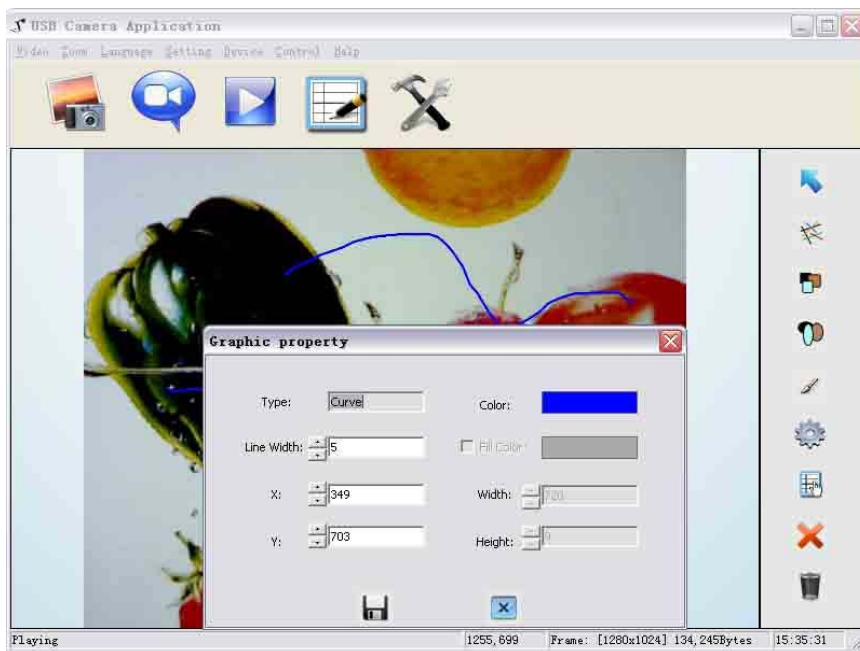


Click to place a curve in the image, shown as below:



Click to change the setting of the chosen curve:





Line width: change the line width of the curve.

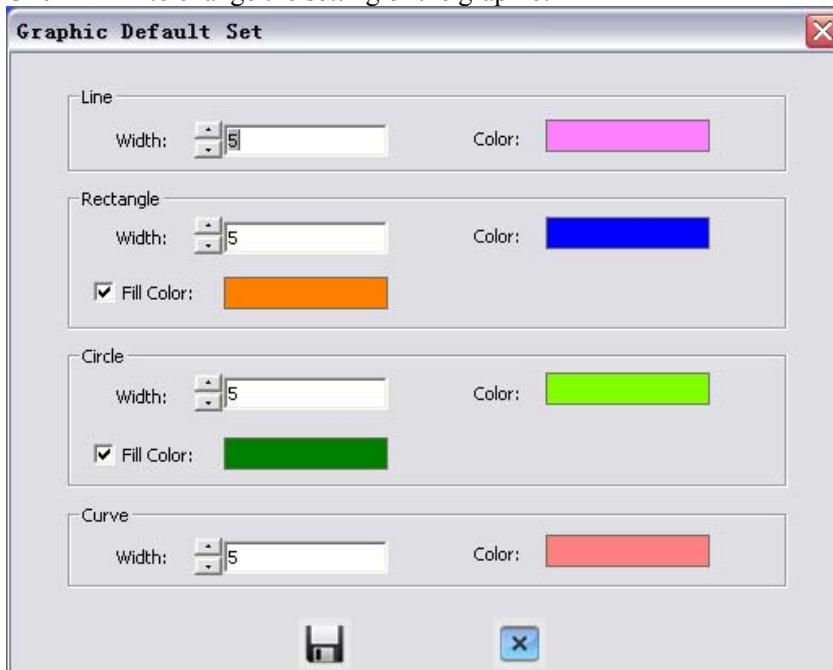
X, Y: change the position of the curve.

Color: change the line color of the curve.

*Graphic default setting*



Click to change the setting of the graphic:



*Graphic delete*



Click to delete the chosen graphic.

*Delete all the graphic*



Click to delete all graphic that placed in the image.



# 7. FEATURES

## LIGHT

Press **“LAMP”** to turn on or turn off the LED light.

## ZOOM IN AND ZOOM OUT

Press **"ZOOM+"** or **"ZOOM-"**

## FOCUS ADJUSTMENT

When the PV 360 is turned on, the focus automatically adjusts to the stage. It may not be necessary to re-adjust the focus if you are only working with flat materials (text, photos, etc.). Only 3D objects require a focus adjustment. Press the **“AUTO”** button to auto focus. Press the **"FOCUS+"**, or **"FOCUS-"** button to focus manually.

## BRIGHTNESS ADJUSTMENT

If the image effect is not satisfactory, you can adjust the brightness to get a better image effect. Use the **“BRIGHT+”** or **“BRIGHT-”** button to adjust the brightness.

## WHITE BALANCE ADJUSTMENT

Each time the lighting condition changes, the user should adjust the white balance of the CMOS. Press the **“AUTO”** button to adjust the white balance automatically.

## IMAGE FREEZE

The freeze function allows you to discretely prepare the next image without interrupting current presentation. Press **"Freeze"** on remote control to freeze and unfreeze the image.

## IMAGE ROTATE

Press **“Rotate”** on remote control to rotate the image by 180°.

## SPLIT SCREEN

Press **“SPLIT”** to compare two images or compare two different views of one object side by side.

## IMAGE SAVE

The PV 360 offers the opportunity of storing 12 images on board. Press **"SAVE"** to capture the image currently displayed.

## IMAGE RECALL

By pressing **“RECALL”**, all saved images are displayed in the thumbnail index mode for easy selection.

## USB IMAGE CAPTURE AND VIDEO RECORDING

The USB port can be used to capture still images from the PV 360 into a computer. In this way, the PV 360 can be used as a 3-D scanner for your computer.



## 8. SPECIFICATION

Model	PV 360
Sensor	1/3" CMOS
Pixels	0.85 Megapixel
Zoom	3x optical, 8x digital
Frame rate	15
Shooting area	Max: 13.5"x10.6", Min: 0.1"x0.1"
Focus	Auto/manual
Output resolution	XGA ( 1024 x768 )
Resolution(Horizontal)	≥650 TV lines
White balance	Auto/manual
Color adjustment	Yes
Brightness adjustment	Yes
Image capture	Yes, 12 images
Video recording	Yes (via USB)
Image rotation	180°
Image split	Yes
Image freeze	Yes
Text mode	Yes
Output	VGA ×1
USB2.0	Slave×1(USB camera)
Remote control	Yes(360°controllable)
Light source	LED light box
Kensington lock	Yes
Operating temperature	32°F ~113°F
Dimensions	Folded:12.6"×6.6"×3.7", Setup:19.7"×6.6"×19.3"
Power supply	12V DC power adapter
Weight(net)	5.5lbs/2.5kg

## 9. TROUBLE-SHOOTING:

Symptoms	Possible causes/counter-measures
No image	<ol style="list-style-type: none"><li>1. Power cord is not properly connected.</li><li>2. Cables are not properly connected.</li><li>3. Power switch is not turned on.</li></ol>
Image bending	<ol style="list-style-type: none"><li>1. Camera not in right position, adjust the camera.</li><li>2. Distortion of LCD display, press the “Auto adjust” of the LCD.</li></ol>
Out of focus or blurring image	<ol style="list-style-type: none"><li>1. The object is too close to the lens.</li><li>2. Focus is on the top point of zoom, press ZOOM-.</li><li>3. Auto-focus is not on: press AUTO again.</li><li>4. Fog on the lens in damp climate. It will disappear gradually when the equipment warms up.</li></ol>

If the problem still remains after checking the above, consult your dealer or authorized service personnel.

## 10. PACKING LIST

Item	Quantity
Power cord	1
Power adaptor (12V/2A)	1
VGA cable	1
USB cable (2.0)	1
Remote control	1
User manual(CD)	1

# 11. TECHNICAL SUPPORT

Wanin USA is committed to providing highest possible stand of customer service. We can be reached:

## By Phone

Call us at 1-877-369-3130. Our technical support staff provides technical assistance from 9:00AM through 5:00PM Pacific Standard Time, Monday through Friday. Please gather the following information before calling:

- Product model name(s) and numbers
- Product serial number(s)
- Detailed questions or problem descriptions.

## Online

Technical support is also available online at Wanin USA's web site at [www.waninusa.com](http://www.waninusa.com). You can enter your questions and concerns through our online form, email us at [support@waninusa.com](mailto:support@waninusa.com).

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